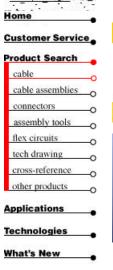
3M Electronic Interconnects

3M Corporate Electronic Markets Center



Net Links

CABLE External Wiring

3659 Series

.050" Round, Shielded/Jacketed, Flat Cable, 28 AWG Stranded, Mass-Term, PVC/PVC

Technical Drawing O



- Round construction permits easier routing
- 28 AWG wire on .050 inch pitch permits mass termination to broad line of IDC connectors
- Continuous split/bond repeat allows for mass termination on 2.4 inch centers (approximate)
- Primary cable is zippable for branching or discrete terminations
- Meets external wiring requirments of National Electrical Code, Article 725 (CL2)
- UL listed for USA and Canadian markets
- Dual shielding provides 35db average shielding effectiveness

PHYSICAL

Insulation

Material: Polyvinyl Chloride (PVC)

Color: Black

Primary Material: PVC

Color: Gray

Marking

Standard: (UL) CL2 75C 28 AWG or AWM

20267 3M NU

CNA AWM IIA/B 80C 300V FT1

EU < 50V

Conductors: 28 AWG 7 x 36 [7 x 0.127]

Tinned Stranded Copper

Shielding: .001 [0.03] Thick

Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper

Braid

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ELECTRICAL

Voltage Rating: USA N.E.C. 725, CL2 or AWM;

300 V

Canada: 300 V EU: <50 V

Insulation > 1 x 10^{10} $\Omega/10$ ft. [3m]

Resistance:

Impedance:

Capacitance: 27.7 pF/ft. 15.2 pF/ft.

[90.88 pF/m] [49.9 pF/m]

Inductance: .13 μ H/ft. .20 μ H/ft.

[$0.43~\mu\text{H/m}$] [$0.66~\mu\text{H/m}$]

Propagation Delay: 1.72 ns/ft. 1.62 ns/ft.

[5.64 ns/m] [5.32 ns/m]

Velocity of 59% 62%

Propagation:

Note: Unbalanced is measured between

ground-signal-ground conductors with shield grounded. Balanced is measured between signal conductors

within a pair, with the shield

floating.

ENVIRONMENTAL

Temperature Rating: USA: CL2; 75°C Max or

AWM; -20° C to $+80^{\circ}$ C

Canada: 80°C

Flammability Rating: USA: UL: N.E.C. 725, CL2

Canada: FTI

UL File No.: E118773, Power Limited Circuit Cable: CL2 (or AWM Style 20267)

Revision 14

For Assembly equipment info call 1-800-225-5373

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